AMSAT News Service Weekly Bulletins
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SB ALL @ AMSAT $ANS-360.01
MICROSAT LAUNCH STATUS REPORT #3

HR AMSAT NEWS SERVICE BULLETIN 360.01 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 26, 1989
TO ALL RADIO AMATEURS BT

MICROSAT LAUNCH STATUS REPORT

All seven payloads: four microsats, two UoSATs and the primary SPOT-2 payload have been integrated and encapsulated in their payload structure. The SPOT-2 has also been fully fueled and all are awaiting mating with the Arianne vehicle which will occur in a few days

The microsat batteries are being trickle charged, 10 hours on and 14 hours off per day, by Dave Cowdin, WD0HHU who will be in Kourou through launch day. This is done so that the onboard computers will remain powered up and retain their software loads in preparation for early flight operations.

Although separation from the launcher physically connects power to the microsat transmitters, they will not actually be turned on until a few hours after launch by either NK6K operating W6TRW on the U. S. west coast or N4HY on the east coast.

A prelaunch keplerian element set useful for all seven payloads will be published next week.

Rudimentary telemetry software for IBM-PC and compatibles is being prepared at this time and will be available soon. Distribution will be first to command stations and Command Station Development Program members followed by availability from AMSAT Headquarters and various electronic sources. If you do not have your software in place on launch day, simply capture files of received data for later processing.

Monitor the following frequencies early in the mission:

LUSAT	437.150	PSK	(straight PSK transmitter)
LUSAT-CW	437.125	CW	(modified character set)
WEBERSAT	437.075	PSK	(raised cosine transmitter)
PACSAT	437.025	PSK	(raised cosine transmitter)
DOVE	145.825	FM	packet

Monitoring of the PSK signals will require an SSB receiver and a TNC-2 modified with a 1200 baud PSK demodulator. FM packet from DOVE may be monitored with an unmodified TNC and FM receiver. The LUSAT CW beacon transmits telemetry values in Morse Code om which numeric characters have been modified in order to save CW transmitter power. In all cases, more information will be published as it becomes available from the spacecraft development team. Copy CW signals as heard and capture packet telemetry into computer disk files for later processing.

Additional information including other downlink frequencies and the uplink frequencies will be released as "opening day" for each

of the satellites nears.

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SB ALL @ AMSAT $ANS-360.02
ALINS PREPARATIONS UNDERWAY

HR AMSAT NEWS SERVICE BULLETIN 360.02 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 26, 1989
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MICROSAT / UOSAT LAUNCH NETWORK PLANS ANNOUNCED

The AMSAT Launch Information Network (ALINS) in support of the up-coming MICROSAT/UOSAT launch is taking shape. The launch net will provide real time coverage of the launch day activities.

Providing HF support for ALINS will be W1AW, WA3NAN, W5RRR, W6VIO and several overseas stations. Additional stations may be added to the HF network. Exact HF frequencies and times of operation will be published in next week's report.

In support of local distribution via 2 meter FM repeaters around the country, AMSAT has, with the aid of the ARRL headquarters staff, secured the use of a teleconference bridge that will support over 100 different ports. It will therefore be possible for local repeaters to simply place a long distance telephone call and join the bridge.

It will be necessary for local repeater groups to reserve a port on the ALINS teleconference bridge. To do so for your local repeater group either drop a post card to: AMSAT Launch Information Network Service, c/o Courtney Duncan, N5BF, 4522 Ocean View, La Canada, CA 91011, or make a telephone request by contacting Courtney at 818-957-8455 between 7 and 10 pm PST or at other times by leaving information on the answering machine. Requests should be made no later than January 1st, 1990. AMSAT will notify repeater groups as to how they will be able to access the teleconference bridge around the 5th of January.

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SB ALL @ AMSAT $ANS-360.03
AMSAT OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 360.03 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 26, 1989
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Following is the schedule for Operations Nets for the next several weeks.

Day	UTC	Day U.S.	Freq.	NCS	Guest
30 Dec 89	1415	Saturday	435.970	N5BF	KL7GRF
07 Jan 89	1700	Sunday	435.970	TBD	TBD
20 Jan 90	1400	Saturday	435.970	N5BF	KO5I

On 30 December, John Fail, KL7GRF, will be discussing satellite DXing, presenting operating hints and information about the upcoming DXpeditions to Bouvet Island and Juan Hernandez.

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SB ALL @ AMSAT $ANS-360.04
SATELLITE OPERATING SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 360.04 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 26, 1989
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OSCAR Satellite Operating Schedule

The following information is provided by AMSAT-DL.

AO-13 TRANSPONDER SCHEDULE

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               MODE B   MA 000 TO MA 110
               MODE JL  MA 110 TO MA 145
               OFF      MA 145 TO MA 150     BAHN LAT +3.6 deg
               S BEACON MA 146 TO MA 147     BAHN LON 179.4 deg
               MODE S   MA 147 TO MA 160
               MODE B   MA 150 TO MA 255
               OMNI ANT MA 225 TO MA 035
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AMSAT OSCAR-10 is currently available for whole orbit operation
via the mode B transponder.

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SB ALL @ AMSAT $ANS-360.05
ZRO TEST SCHEDULE

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ZRO Test Schedule

The following is a schedule of Mode B and Mode J/L ZRO test times and
downlink frequencies.

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 Saturday   December 30, 1989 at 16:00 UTC  MODE B  145.840 MHz
 Saturday   January  06, 1990 at 18:00 UTC  MODE JL 435.945 MHz
 Saturday   January  13, 1990 at 12:00 UTC  MODE B  145.840 MHz
 Saturday   January  20, 1990 at 15:30 UTC  MODE B  145.840 MHz
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Any changes will be announced as soon as possible via the AMSAT HF/VHF Nets
and OSCAR-13 Operations Nets. ZRO brochures are available from WA5ZIB, Andy
MacAllister, AMSAT V.P. of User Operations, 14714 Knightsway Drive, Houston,
TX 77083 for an S.A.S.E. with one unit of postage.

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